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America, I feel justified in including this among the "helpful." The paper begins by giving a good life history of an hepatic from spore to spore. The rarer and newer species have long notes of interest and twenty-one species are figured.

To be Continued

HIGHLANDS, N. Y.

A LIST OF MOSSES COLLECTED IN SOUTHERN CALIFORNIA

C. C. KINGMAN

The following mosses were collected in the San Gabriel Mts., and the region around Pasadena, while a few were found at Santa Catalina Island and at Santa Barbara. I am indebted to Prof. John M. Holzinger, Mr. R. S. Williams and Mrs. E. M. Dunham for determining many of the species.

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| <i>Alsia circinalis</i> Sulliv. On rocks and trees, San Gabriel Mts. | <i>Bryum argenteum</i> L. Common everywhere in waste places. |
| <i>Alsia longipes</i> S. & L. Damp rocks, San Gabriel Mts. | <i>Bryum obconicum</i> Hornsch. Santa Catalina Island. |
| <i>Amblystegium riparium</i> (L.) B. & S. On submerged rocks in creek, Santa Barbara. | <i>Bryum torquescens</i> B. & S. Canyons of San Gabriel Mts., also Santa Barbara. |
| <i>Amblystegium serpens</i> (L.) B. & S. Shady lawn, Pasadena. | <i>Camptothecium arenarium</i> (Lesq.) Ren. & Card. Gravelly banks, Pasadena. |
| <i>Amblystegium varium</i> (Hedw.) Lindb. Mt. Wilson trail, San Gabriel Mts. | <i>Camptothecium pinnatifidum</i> (S. & L.) J. & S. On shaded rocks, San Gabriel Mts. |
| <i>Anacolia Menziesii</i> (Turn.) Paris. On damp rocks, San Gabriel Mts. | <i>Claopodium leuconeurum</i> (S. & L.) R. & C. Shady banks, Pasadena and San Gabriel Mts. |
| <i>Antitrichia californica</i> Sulliv. San Gabriel Mts. | <i>Desmatodon arenaceus</i> S. & L. Grassy places, Santa Monica. |
| <i>Barbula rigidula</i> (Hedw.) Sch. Canyons of San Gabriel Mts. | <i>Desmatodon Guepini</i> B. & S. On the ground, near Pasadena. |
| <i>Barbula semitoria</i> Sulliv. Pasadena. | <i>Desmatodon nervosus</i> B. & S. On sides of trails, San Gabriel Mts. |
| <i>Barbula subfallax</i> Muell. Millard Canyon, San Gabriel Mts. | <i>Desmatodon plinthobius</i> S. & L. Shady banks near Santa Monica. |
| <i>Barbula vinealis</i> Brid. Santa Catalina Island, and Santa Barbara. | <i>Dicranoweisia cirrhata</i> (Hedw.) Lindb. On decaying logs, San Gabriel Mts., above 3,000 feet. |
| <i>Brachythecium Bolanderi</i> (L.) J. & S. Rubio Canyon, San Gabriel Mts. | <i>Didymodon tophaceus</i> (Brid.) Jur. |
| <i>Brachythecium californicum</i> (Lesq.) J. & S. On trees, Santa Ynez Mts. | |
| <i>Brachythecium rutabulum</i> (L.) B. & S. Mt. Wilson trail, San Gabriel Mts. | |

- Near calcareous spring, Santa Catalina Island.
- Encalypta vulgaris* (Hedw.) Hoffm. var *obtusa*. Schimp. Rubio Canyon, San Gabriel Mts.
- Eucladium verticillatum* (L.) B. & S. On calcareous rocks, and fruiting freely. San Gabriel Mts.
- Eurhynchium praelongum* (L.) Bryhn. On damp rocks, San Gabriel Mts. and Santa Ynez Mts.
- Fabronia octoblepharis* (Schleich) Schw. On trees, rare. Rubio Canyon, San Gabriel Mts.
- Fissidens limbatus* Sulliv. Shady banks, common. Pasadena and San Gabriel Mts.
- Funaria calcarea* Wahlenb. Shady banks, occasional. San Gabriel Mts.
- Funaria convoluta* Hamp. Los Flores Canyon, San Gabriel Mts., rare.
- Funaria hygrometrica* (L.) Sibth. Waste places and burnt ground, common.
- Grimmia californica* Sulliv. Common on rocks and ledges.
- Grimmia leucophaea* Grev. Occasional, on rocks. San Gabriel Mts.
- Grimmia trichyophylla* Grev. Growing in dense cushions on rocks, San Gabriel Mts.
- Gymnostomum calcareum* Nees & Hornsch. Calcareous rocks, canyons of San Gabriel and Santa Ynez Mts.
- Hedwigia albicans* (Web.) Lindb. On rocks, San Gabriel Mts.
- Isoetecium Brewerianum* (Lesq.) Kindb. Mt. Wilson trail, San Gabriel Mts.
- Leptobryum pyriforme* (L.) Wils. Millard Canyon, San Gabriel Mts.
- Mniobryum albicans* (Wahlenb.) Limpr. Wet rocks and springy places, San Gabriel Mts.
- Orthotrichum Bolanderi* Sulliv. On rocks, canyons of San Gabriel Mts.
- Orthotrichum cylindrocarpum* Lesq. On trees, Pasadena and San Gabriel Mts.
- Orthotrichum Lyellii* Hook. and Tayl. On trees in higher elevations of San Gabriel Mts.
- Orthotrichum rupestre* Schleich. On rocks, canyons of San Gabriel Mts.
- Pleuridium Bolanderi* Muell. On the ground, near Pasadena.
- Polytrichum piliferum* Schreb. Echo Mt., San Gabriel Mts. Small and sterile.
- Pterogonium gracile* Swartz. Common on ledges, San Gabriel and Santa Ynez Mts.
- Scleropodium apocladum* (Mitt.) Grout. Rocks and ledges, Pasadena and San Gabriel Mts.
- Scleropodium illecebrum* B. & S. On rocks, Pasadena and San Gabriel Mts.
- Scleropodium obtusifolium* (Hook) Kindb. On wet, dripping rocks, often growing in the spray of a waterfall, San Gabriel Mts.
- Timmiella flexisetula* (Bruch) Limpr. "Sturdevant trail." San Gabriel Mts.
- Timmiella Vancouverensis* Broth. San Gabriel Mts. Det. Best.
- Tortula brevipes* (Lesq.) Broth. Gravelly places and old walls, Pasadena and San Gabriel Mts. Specimen No. 1241 collected on wall of Old San Gabriel Mission.
- Tortula muralis* (L.) Hedw. Rocks and old walls, Santa Barbara.
- Tortula princeps* De Not. (Listed as *T. Muelleri* Wils.) Frequent in canyons of San Gabriel Mts.
- Tortula ruralis* (L.) Ehrh. On decaying logs, Pasadena.
- Weisia viridula* (L.) Hedw. Shady banks, San Gabriel and Santa Monica Mts.

To this list should be added the following additional mosses reported by Prof. John McClatchie in 1891. (History of Pasadena, Cal.—Reid. 1895.)

<i>Amblystegium irriguum</i> (Hook & Wils.) B. & S.	<i>Bryum turbinatum</i> (Hedw.) Schwaegr.
<i>Aulacomnium androgynum</i> (L.) Schwaegr.	<i>Fissidens grandifrons</i> Brid.
	<i>Pohlia nutans</i> (Schreb.) Lindb.

ADDITIONS TO THE RECORDED MOSSES OF WEST VIRGINIA

JOHN L. SHELDON

In so far as I am aware, no considerable addition to the list of mosses of West Virginia has been made since the one made by Dr. Andrews* in 1905. For the past eight years I have been collecting, among other things, an occasional moss. With the assistance of several members of the S. M. S., I have recently completed an examination of these specimens and am now able to add the following:

Amblystegium Juratzkanum Schimp. On bark of decaying log, south of Morgantown (1352).

Anacamptodon splachnoides (Fröl.) Brid. In a knot hole of an apple tree, Lick Run (3337).

Anomodon apiculatus Br. & Sch. On trunk of beech in woods, Cranberry Glades (3721).

Aphanorrhagma serratum (Hook. & Wils.) Sulliv. Roadside leading from North Front Street, Morgantown (2689, 3973); south side of Decker's Creek near where Aaron's Run empties into the creek (4314).

Barbula unguiculata (Huds.) Hedw. On curbstone along Front Street (2051) and on a pile of stones in South Park (2279), Morgantown; on rocks along a small stream near Fort Spring (2803).

Brachythecium acuminatum (Hedw.) Kind. *forma*. On tree trunk, Marilla (1417).

Brachythecium digastrum C. M. & K. On decayed log, Lick Run (3968).

Brachythecium plumosum (Sw.) Br. & Sch. On wet ledge along Decker's Creek opposite Marilla (4003, 4009).

Bryum intermedium Brid. Morgantown (167, 169, 1268); Middle Ferry (2340); Lick Run (3957). Dr. Grout says No. 2340 is not typical.

Bryum pseudotriquetrum (Hedw.) Schwaegr. (?) Bank along railroad, Sturgeson (186). Doubtfully referred to this species by Dr. Grout.

Cirriphyllum Boscii (Schwaegr.) Grout. Morgantown (1270); on ledge near Burnt House (4230).

Desmatodon Porteri James. On sandstone rock near Ravenswood (2388).

Dicranum fuscescens Turn. Cheat Bridge (2538).

* Andrews, A. LeRoy. Additions to the Bryophytic Flora of West Virginia. THE BRYOLOGIST 8: 53-65. Jy. 1905.

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ERRATA

- Page 11, line 7 from bottom, for *Wattiania*, read *Wattiana*.
- Page 65, lines 10 and 15 from bottom, for *guadalupense*, read *guadelupense*.
- Page 66, add following to bottom of page: "and that of both to *S. papillosum*.⁸ I must also refer to two specimens of"
- Page 71, line 6, for *si ed*, read *sized*.
- Page 71, line 14, for *eld*, read *el*.
- Page 71, line 16, for *an-*, read *and*.
- Page 72, line 19, for *pecies*, read *species*.
- Page 73, line 15, for *overly*, read *overlay*.
- Page 75, line 8 from bottom, for *Kristiana* read *Kristiania*.
- Page 82, line 1, for INTERCEDENS, read INTERCEDENS.
- Page 83, line 14 from bottom, for *park*, read *Park*.
- Page 84, line 1 from bottom, ditto.
- Page 93, line 5, for *Highlands, N. Y.*, read *Highlands, N. J.*
- Page 94, line 28, first column, for *trichyophylla*, read *trichophylla*.